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(54) Title: METHOD FOR CONTROLLING INVERTEBRATE PESTS AND/OR FUNGAL DISEASES WHICH AFFECT POTATOES OR OTHER CROPS

(57) Abstract: A method of protecting crop plants by controlling phytophagous invertebrate pests and/or plant diseases caused by fungal pest is disclosed. The method involves applying a series of doses of an aqueous mixture containing an effective amount of a crop protection agent to the locus of the roots of the crop plants by means of perforated or porous conduit (e.g., tubing or irrigation tape) on or near the surface of the soil. At least one dose of the series is applied in the period from one week prior to planting to two days prior to harvest; and at least two doses of the series are applied at least two days apart during the growing season of the crop or the infestation period of a pest being controlled.

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## INTERNATIONAL SEARCH REPORT

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PCT/US 03/04881

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A01N25/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ, BIOSIS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ROYER T A ET AL: "INSECTICIDE APPLICATION AND INSECT CONTROL USING A DRIP IRRIGATION DELIVERY SYSTEM" PESTICIDE SCIENCE, vol. 25, no. 3, 1989, pages 231-240, XP009016998 ISSN: 0031-613X the whole document  ----- -/-	1-14

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>SCHIPKE L G ET AL: "Control of banana burrowing nematode (<i>Radopholus similis</i>) by fenamiphos applied through micro-irrigation in North Queensland." AUSTRALIAN JOURNAL OF EXPERIMENTAL AGRICULTURE, vol. 34, no. 1, 1994, pages 109-114, XP009016800  ISSN: 0816-1089  page 109, right-hand column -page 110, left-hand column  page 111 -page 113; figures 1,2; tables 1,2</p>	1-14
X	<p>VRAIN T C ET AL: "APPLICATION OF NONVOLATILE NEMATOCIDES THROUGH A TRICKLE IRRIGATION SYSTEM TO CONTROL PRATYLENCHUS-PENETRANS IN RASPBERRIES RUBUS-IDAEUS" CANADIAN JOURNAL OF PLANT PATHOLOGY, vol. 8, no. 1, 1986, pages 97-101, XP009016801  ISSN: 0706-0661  page 97, right-hand column -page 100, right-hand column</p>	1-14
X	<p>HEUNGENS A ET AL: "Control of Western flower thrips (<i>Frankliniella occidentalis</i>) on <i>Verbena hybrida</i> by irrigation of systemic insecticides." MEDEDELINGEN FACULTEIT LANDBOUWKUNDIGE EN TOEGEPASTE BIOLOGISCHE, vol. 61, no. 3A, 1996, pages 859-863, XP000901763  1996  page 860 -page 862  -resumé-  page 862</p>	1-14
X	<p>GARABEDIAN S ET AL: "EFFECTS OF NONFUMIGANT NEMATOCIDES APPLIED THROUGH LOW-PRESSURE DRIP IRRIGATION ON CONTROL OF MELOIDOGYNE-INCOGNITA ON TOMATOES" PLANT DISEASE, vol. 69, no. 2, 1985, pages 138-140, XP009016999  ISSN: 0191-2917  the whole document</p>	1-14

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WESTERDAHL B B ET AL: "Management of Pratylenchus penetrans on oriental lilies with drip and foliar-applied nematicides." JOURNAL OF NEMATOLOGY, vol. 25, no. 4 SUPPL., 1993, pages 758-767, XP009016785 ISSN: 0022-300X page 759, left-hand column</p>	1-14
X	<p>APT W J: "THE APPLICATION OF PHENAMIPHOS AND OXAMYL BY DRIP IRRIGATION FOR THE CONTROL OF THE RENIFORM NEMATODE ROTYLENCHULUS-RENIFORMIS ON PINEAPPLE IN HAWAII USA" JOURNAL OF NEMATOLOGY, vol. 13, no. 4, 1981, page 430 XP009016761 ISSN: 0022-300X the whole document</p>	1-14
A	<p>BELL A A ET AL: "Mechanisms of subsurface drip irrigation-mediated suppression of lettuce drop caused by Sclerotinia minor." PHYTOPATHOLOGY, vol. 88, no. 3, March 1998 (1998-03), pages 252-259, XP001155008 ISSN: 0031-949X cited in the application the whole document</p>	1-14
A	<p>OVERMAN A J: "NEMATOCIDES IN LINEAR DRIP IRRIGATION FOR FULL BED MULCH OF TOMATO" SOIL AND CROP SCIENCE SOCIETY OF FLORIDA PROCEEDINGS, vol. 34, 1975, pages 197-200, XP001154906 ISSN: 0096-4522 page 197, right-hand column -page 200, right-hand column</p>	1-14
A	<p>DUTCHER J D ET AL: "APPLICATION OF REDUCED RATES OF SYSTEMIC INSECTICIDES FOR CONTROL OF FOLIAR PECAN ARTHROPODS" JOURNAL OF ECONOMIC ENTOMOLOGY, vol. 77, no. 4, 1984, pages 1037-1040, XP001154908 ISSN: 0022-0493 abstract</p>	1-14